

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number
WO 2005/005933 A1

(51) International Patent Classification⁷: G01F 1/704, G01N 27/414, 27/26, 33/15, 33/18, 33/02

(74) Agents: HEPP, Dieter et al.; Hepp Wenger Ryffel AG, Friedtalweg 5, CH-9500 Wil (CH).

(21) International Application Number: PCT/EP2004/005391

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 19 May 2004 (19.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 03015010.6 2 July 2003 (02.07.2003) EP

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): SICPA HOLDING S.A. [CH/CH]; Avenue de Florissant 41, CH-1008 Prilly (CH).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(71) Applicant (for US only): JAQUIER, Silvain [CH/CH]; Grand-Rue 25, CH-1623 Semsales (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): TILLER, Thomas [DE/CH]; Chemin du Cèdre 21, CH-1030 Bussigny (CH). MARGUERETTAZ, Xavier [CH/CH]; R. du Guercet 93, CH-1920 Martigny (CH).

(54) Title: METHOD OF MARKING A PRODUCT, MARKED PRODUCT RESULTING THEREOF, AND METHOD OF IDENTIFYING SAME

(57) Abstract: A method and means for identifying the authenticity and the genuine nature of a solid or liquid bulk material, by incorporating a marking composition containing at least one trace ion into the said bulk material, whereby the total concentration of the incorporated trace ions in the market bulk material is chosen to be lower than the corresponding concentration of the same ions in standard sea water. The authenticity and the genuine nature or the adulteration level of the marked bulk material can be tested in-the-field using electrochemical sensors, and confirmed in the laboratory using a method such as atomic absorption spectroscopy, ion chromatography or mass spectrometry.

WO 2005/005933 A1